



Agency for Toxic Substances
and Disease Registry
Atlanta GA 30333
July 9, 1991

Robert Bornstein
U.S. Environmental Protection Agency
Field Operations H-83
75 Hawthorne Street
San Francisco, California 94105

Dear Mr. Bornstein:

In response to your request concerning the Bluewater Uranium Sites, I have reviewed your Technical Memorandum of July 5, 1991, and have the following comments:

The National Council on Radiation Protection and Measurements (NCRP) guidelines in NCRP Report 91 state that for continuous exposure of a population, that population should not be exposed to an annual effective dose equivalent of 100 millirems. This value is the exposure above background but does not include medical sources of radiation nor does it include radon.

Using these guidelines, I agree with your assumptions and calculations that areas in which the gamma exposure is less than 165 microroentgens per hour, including background, do not require emergency response actions.

If I can be of further assistance, please contact me at FTS 236-0628.

Sincerely,

Paul A. Chapp, Ph.D.
Senior Health Physicist
Federal Facilities Activity

cc:
William Nelson, Region IX